CALIBER AUDIO TECHNOLOGY

MCM 1102

ROOF MOUNT DVD PLAYER WITH 10.2" TFT LCD MONITOR

ENGLISH MANUAL

Contents

Safety Information.....2
Introduction.....4
Controls.....5
Monitor Stowed View.....5
Monitor Open View.....6
Remote Control.....7
Operation.....9
Open the monitor.....9
Stow the monitor.....9
Turn the player on/off.....9
Adjust the display.....10
Care and Maintenance.....10
Use the remote control.....11
Replace the battery in the remote control.....11
Play USB device and SD/MMC card.....12
Installation and Wiring.....12
What's in the box.....12
Before you begin.....12
Mounting and Wiring Precautions.....14
Installation procedure.....15
Wiring diagram.....14
System Setup.....15
Specifications.....16
Troubleshooting.....17

Safety Information

- Thank you for buying the Roof Mount TFT LCD Monitor . Please read this manual carefully before using the player in order to get the most out of all the features and functions. Keep this manual in a safe place, as it can be a valuable tool in helping you to understand all the features and functions.
- Do not operate the unit in any way other than described within this manual. Failure to follow the instructions within the manual will invalidate your warranty.
- SAFETY FIRST! Do not install the display where it may (i) obstruct the driver's vision, (ii) impair the performance of any of the vehicle's operating systems or safety features, including airbags, or (iii) impair the driver's ability to safely operate the vehicle.
- When using the system, make sure you are firmly secured by your seat belt to ensure you do not accidentally hit your head on the screen during sudden braking or other incidents. If you are ever in an accident, injuries can be more severe if the seat belt is not properly buckled.
- Do not attempt to install or service your display by yourself. Installation or servicing of the display by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards.
- Be careful not to drain the car battery while using the unit with the car engine stopped. To avoid draining the battery, it is suggested that the vehicle engine always is running while using the unit.
- Do not disassemble or alter the unit in any way. Failure to do so can cause damage to the unit and invalid the warranty.
- Never clean the surface of the screen with chemical solvent or corrosive detergent, which may cause permanent damage to the TFT LCD screen.
- Avoid installing the unit wherever is under direct sunlight or near hot air vent. Please note that the normal working temperature of the unit is between -5℃ to +50℃. If the internal temperature of the vehicle is extremely high, a short cooling down period is necessary before operating the unit.
- If the temperature inside the car is very low and the monitor is used soon after switching on the heater, moisture may form on the panel of the unit. Turn off the unit immediately! Failure to do so may cause the internal components to short. Allow the unit to rest for about one hour to allow the condensation to disappear before continue operation.
- In extremely cold temperatures, the movement of the picture may be slow and the picture may be dark. It is not a malfunction. The unit will work normally once it reaches its operating temperature.
- Do not drop or hit the LCD panel with a hard object, as it may cause permanent damage to the LCD panel. Should LCD panel break, avoid

touching glass and fluid. If do, please clean it with plenty of water and ask for medical attention immediately.

- Due to different car specifications, please kindly ensue that the display monitor is properly located and not obstructing the air-conditioning vent.
- Avoid inserting any foreign objects into the slot of the disc Player. Failure to observe this may cause malfunction due to the precise mechanism of this unit.
- Protect your disc. When you leave the car, be sure to eject the disc from this unit and store it separately away from direct sun light.
- Heat and humidity may damage the disc and you may not be able to play it again.
- Use the supplied screws to fix the monitor Metal Mounting Plate.

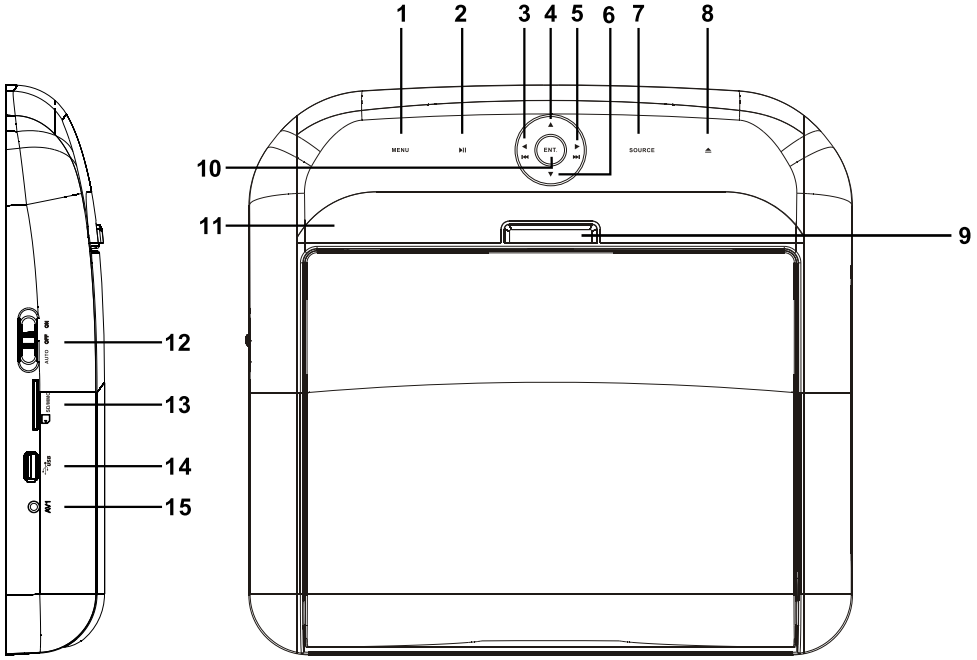
Introduction

This player is a Roof Mount 10.2" TFT-LCD Color Display that can be used as a stand-alone display, or can be integrated into a mobile multimedia system. This player has the following features:

- 10.2" TFT-LCD color monitor(16:9)
- Roof Mounting Application
- Pixel(dots):800RGB(W)x480(H)
- Wide Viewing angle(up/down/left/right):45/65/65/65
- NTSC and PAL Compatible
- Adjustable Contrast / Brightness / Color / Tint
- Manual Viewing Angle Adjustment
- Vertical Angle Adjustable: up/down<120^0
- White LED Dome Light
- Automotive Startup Protection
- On Screen Display
- 2xAV Input
- 1xAV Output
- Support SD/MMC card and USB

Controls

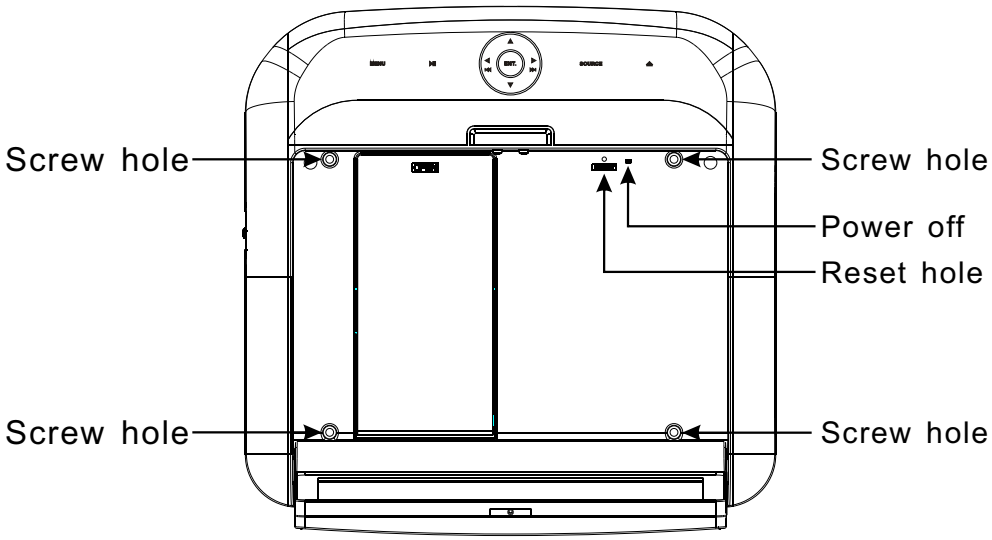
Monitor Stowed View



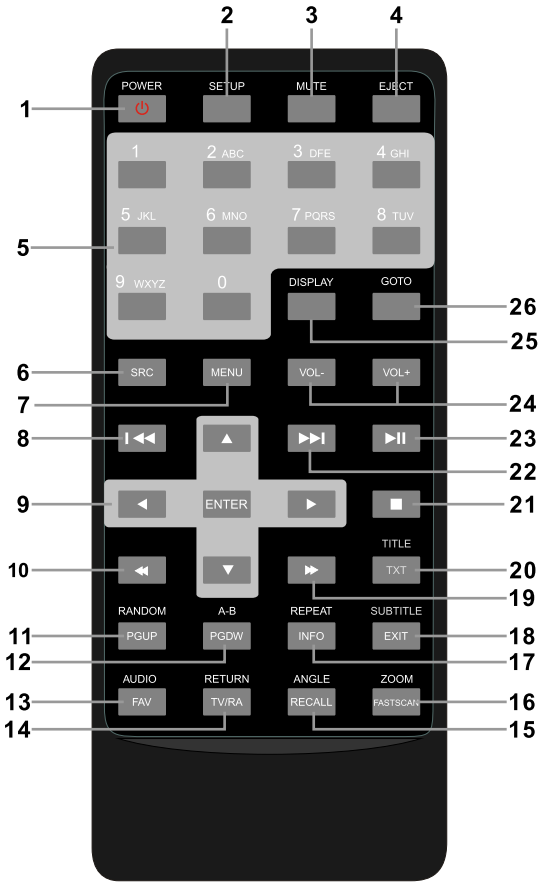
Item	Name	Function or Control
1	**MENU**	Touch and hold to display the OSD menu , touch again to close the OSD menu .
2	⏯	Play or pause .
3	◀ ⏮	Previous Chapter or Track / Navigation Left ; Press and hold to fast reversef at 2x,4x,8x,16x , 32x and normal speed.
4	▲	Navigation Up .
5	▶ ⏭	Next Chapter or Track / Navigation Right ; Press and hold to fast forward at 2x,4x,8x,16x , 32x and normal speed.
6	▼	Navigation Down .
7	**SOURCE**	Selects the video input source: AV 1 , AV 2 , USB , SD/MMC .
8	⏏	No use on TR0101.
9	Panel open switch	Press to release the monitor Panel.
10	**ENT.**	Enter / Confirm choose.
11	Dome light	To illuminate in the car.
12	Dome light Switch	Turns on/off the dome light . When the switch is

		set to AUTO , the dome light turns on when the door is open .
15	SD/MMC card slot	Insert the SD card or MMC card.
16	USB socket	Connect USB device.
17	AV 1 IN socket	External equipment audio/video in socket.

Monitor Open View



Remote Control



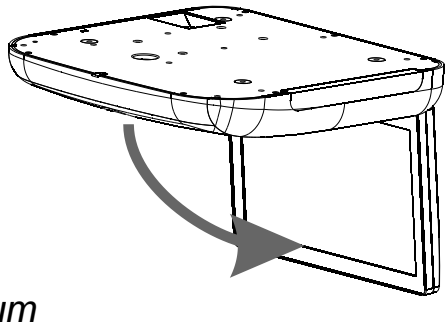
Item	Name	Function or control
1	**POWER**	Turn on or turn off the player.
2	**SETUP**	Press to access the setup menu to modify the player settings.
3	**MUTE**	Turn the sound on or off.
4	**EJECT**	Eject the disc.
5	0-9 Number key	Press to enter numbers directly, such as for settings or track numbers.
6	**SRC**	Selects the video input source: AV 1 , AV 2 , USB and SD/MMC .
7	**MENU**	Press and hold to display the OSD menu , press again to close the OSD menu .
8	⏮	Press to go to the previous chapter or track .
9	Arrows and ENTER	Navigation Up/Left/Right/Down and confirm choose .
10	◀◀ Fast reverse	Press to fast reverse playback at 2x, 4x, 8x,16x and 32x speeds.
11	**RANDOM**	Press to play chapters or tracks in random order.

12	**A-B**	Press to repeat playback from point A to point B. **/** Move down a page in the channel list .
13	**AUDIO**	No use on TR0101 .
14	**RETURN**	Press to return the main menu, press again to return the last position of playback.
15	**ANGLE**	No use on TR0101 .
16	**ZOOM**	Press to set the zoom for movie viewing.
17	**REPEAT**	Press to repeat one / folder / all / off.
18	**SUBTITLE**	No use on TR0101 .
19	▶▶ Fast forward	Press to fast forward playback at 2x, 4x, 8x,16x and 32x speeds.
20	**TITLE**	No use on TR0101 .
21	■ Stop	Press to stop playback, press ⏯ or **ENTER** button to start playing at the last position ; Press this button twice to fully stop playback, press ⏯ or **ENTER** button to start playing at the begin .
22	⏭	Press to go to the next chapter or track.
23	⏯	Play or pause .
24	**VOL - / +**	Press to decrease / increase the volume.
25	**DISPLAY**	Press to display the playback information (such as title, chapter, track and time).
26	**GOTO**	Press to start playback at a selected chapter, track or time.

Operation

Open the monitor

1. Press the Panel open button to lower the overhead monitor screen.
2. Gently swing the LCD down and adjust the angle for viewing.



CAUTION:*The LCD opens to a maximum angle of 120° degrees. Do not attempt to open it further.*

Stow the monitor

Gently push the back side of the display panel until it clicks into the overhead housing.The monitor turns off automatically when you return it to the closed position.

Note :*When closing the display panel , do not let cords or other items get caught between the display and the overhead housing . Doing so can eriously damage the screen.*

For your safety, close the LCD panel when you are not using it.

Turn the player on / off

1. Use the system with the vehicle running or with the ignition key switch in the "accessory" position .
2. To lower the screen , press the Panel Open button and move the screen into a viewing positive. The system will power on automatically .
3. Touch **SOURCE** icon to switch the mode.
4. Stow the monitor or press the power button on the remote control to turn the player off .

Adjust the display

1. Touch and hold the **MENU** button to display adjust menu (OSD).

2. In the OSD MENU , press ▼or ▲ button to sequentially select each menu item .

Contrast	Adjusts the differences between the light and dark areas of the image
Brightness	Makes the whole image lighter or darker
Color	Adjusts color based on the color spectrum
Tint	Adjusts the intensity of the color when in NTSC mode.
Wide Screen	Selects the aspect ratio of the image wide ,normal .
Beep	Select the beep sound when touch each icon or button .
Reset	Returns all menu values to their default settings.

3. Press the ◄ or ► button to change the values of selected option.

Care and Maintenance

Cleaning the monitor

- Use a clean, soft, dry cloth to gently wipe dust and dirt from the screen.
- Do not use benzene, thinner, car cleaner, or other cleaners. These substances may damage the monitor system or cause the paint to peel.
- The surface of the LCD can be easily scratched. Do not rub it with anything abrasive.

Servicing the monitor

In the event that trouble arises, never open the monitor case, disassemble the player or attempt to repair it yourself. The internal parts are not serviceable by user. Opening any components will void the warranty.

CAUTION:

Changes or modifications to this product not approved by the manufacturer may void the warranty.

Use the remote control

- Use the remote control only inside the vehicle.
- Use the remote control no further than five feet (three meters) from the sensor.
- Direct sunlight (or a very bright light) reduces sensitivity to remote signals. Do not use the player in direct sunlight.
- Any object than comes between the infrared sensor and the remote control may disrupt reception.

Replace the battery in the remote control

The battery needs changing when the buttons on the remote stop working or when you have to move close to player for the remote to work.

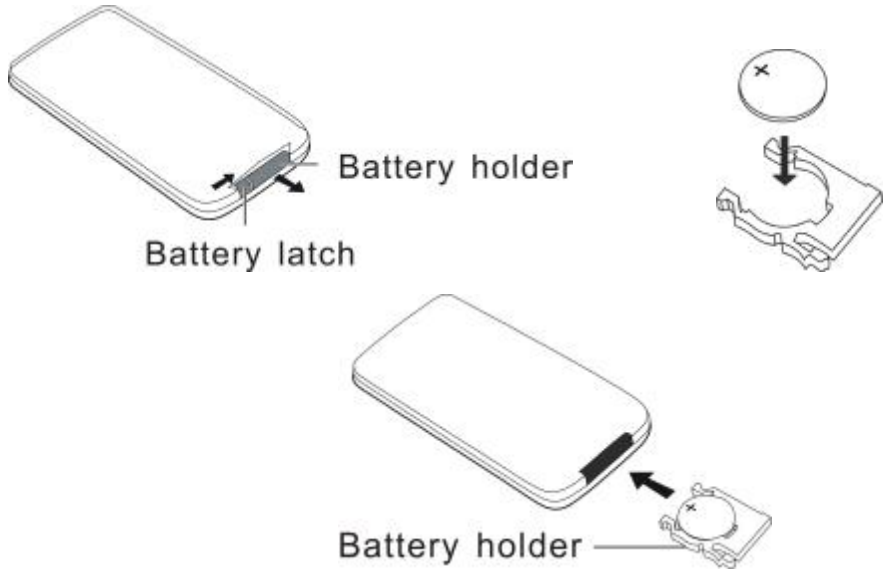
Precautions

- Dispose of used batteries property.
- Do not dispose of used batteries throwing them into fire. If you do so, they may explode.
- Do not short the positive (+) and negative (-) terminals.
- Keep the battery and its holder away from young children.They may choke on the battery while attempting to swallow or chew on it.

Note: *The battery type must be CR2025. Do not replace with any other battery type.*

Procedure

1. Turn the remote up-side-down.
2. Simultaneously slide the battery latch in the direction of the arrow and pull the battery holder out of the slot.
3. Remove the old battery.
4. Place the new battery in the slot with the plus(+) side up.
5. Push the battery holder back into the slot until it locks in place.



Play USB device and SD/MMC card

1. Insert a USB device into the USB socket of the main unit.
2. Touch **SOURCE** button on the panel or press **SRC** button on the remote control for more than 2 seconds to switch to the USB mode. The system will play USB device automatically .
3. Use the arrow buttons to select a file type and press enter to play it .
4. Playing SD/MMC card is the same operation of USB device , please refer to the steps of playing USB device.

Installation and Wiring

Do not attempt to install or service your player by yourself. Installation and servicing in electronic equipment and automotive accessories . If you do not have knowledge or experience this installation may be dangerous and could expose you to the risk of electric shock or other hazards.
Read these instructions and precautions carefully . Improper installation can damage the monitor and the vehicle .

What's in the box

In addition to this manual , the box contains :

Parts Name	Quantity
Player	1
Remote control with battery	1
Power cable	1
AV 1 IN cable	1
AV 2 IN cable	1
AV OUT cable	1
ST4.2x16 screw	8
TB2.6x6 screw	7
PM 4x8 screw	4
Installation Bracket	1
Trim Ring	1
User manual	1

Note : *Use only the contents of this package to install and use the system. Using accessories not provided with this player may damage the player.*

Installation Instructions

- To prevent short circuits, remove the key from the ignition and disconnect the terminal of battery.
- Make proper input and output cable connections for each unit.
- Connect the wire harness in the following order: ground wire, battery wire, ignition wire. Connect the wire harness connector with the display unit.
- Reconnect the terminal of the battery.

Notes :

■ *Do remember to connect the red wire to the ACC of the ignition switch. Or the battery charge might be drained off prematurely.*

■ *If the fuse is opened, first make sure that the cables have not caused a short circuit, and then replace the old fuse with a new one of the same ratings.*

■ *Do not have unconnected cables or terminals touch the metal on the car or any other conducting material.*

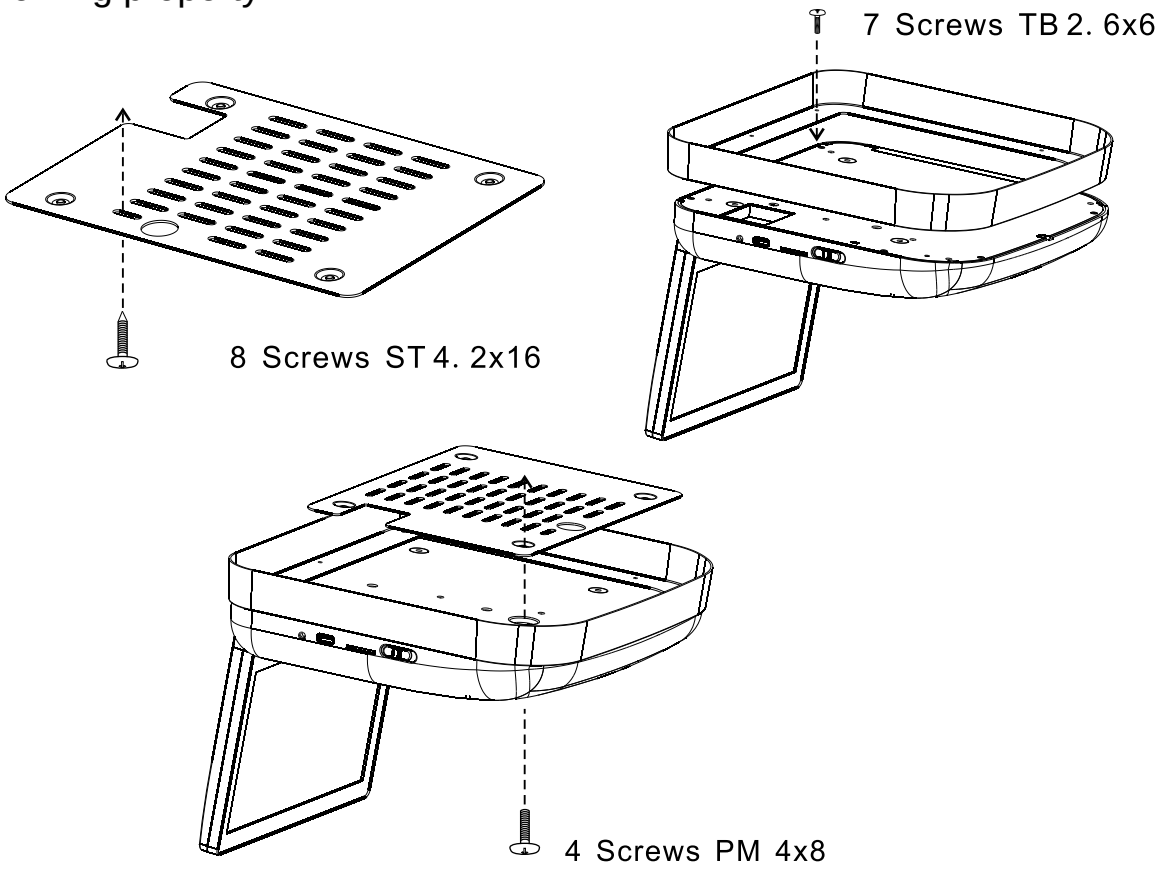
■ *To prevent short circuits, do not remove the caps from unused terminals or from the ends of the unconnected cables.*

■ *After the display unit is installed, check and make sure the brake lights, blinkers, wiper, etc. on the vehicle are working properly.*

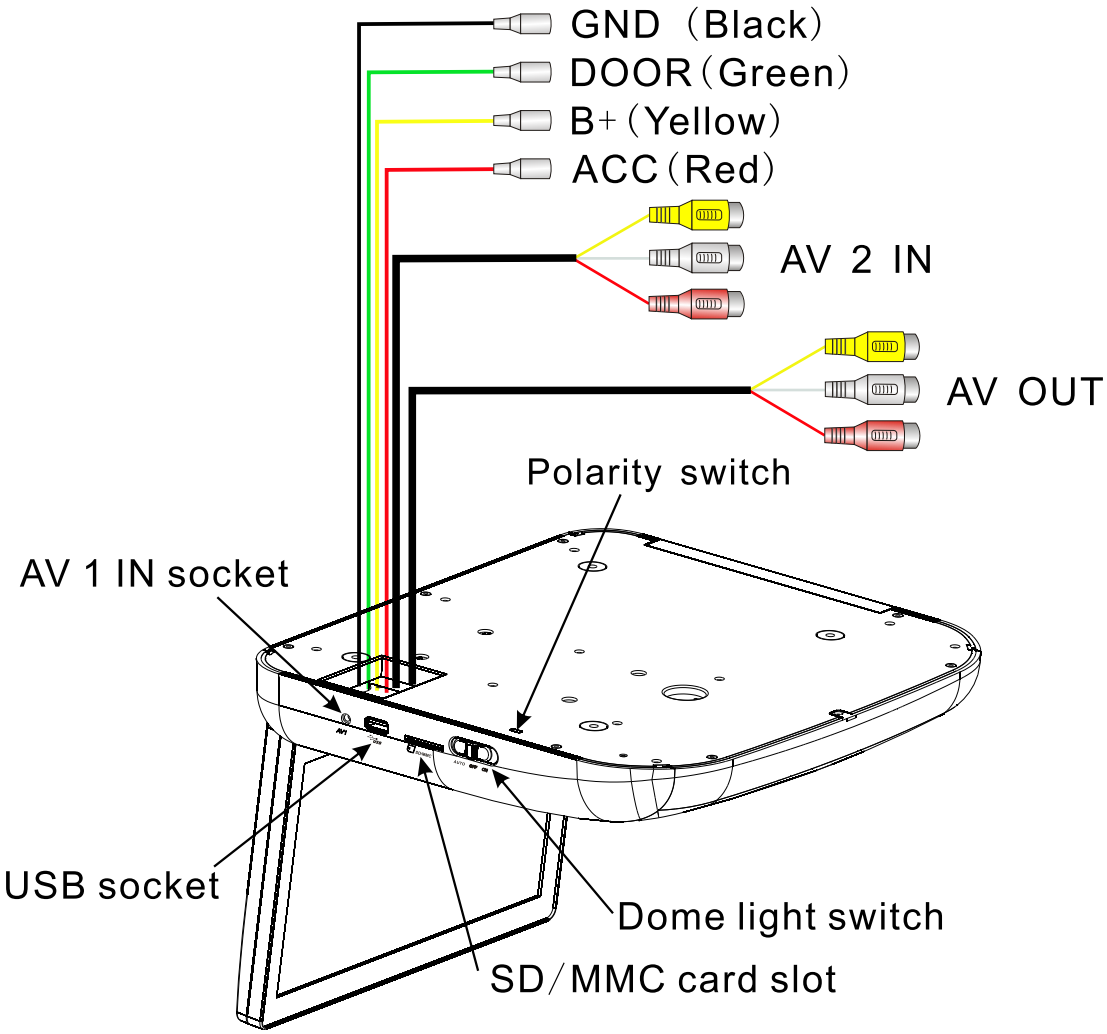
■ *Insulate unconnected wires with vinyl tape or other similar material.*

Installation procedure

1. Screw the Installation Bracket to the beam or plywood using the ST4.2x16 screws.
2. Installing the trim ring on the player using the TB 2.6x6 screws .
3. Plug in power harness and audio/video source cablesinto the overhead monitor .
4. Attach the player to the Installation Bracket using the PM4x8 .
5. Check the car's brake lights, blinkers, wiper, etc. to ensure they are working property.



Wiring diagram



Note : *Slide the polarity switch to "-" if your vehicle's power supply system is negative ; Slide the polarity switch to "+" if your vehicle's power supply system is positive.*

System Setup

1. Press **SETUP** on the remote control to access the setup menu.
2. Press ▲ / ▼ button to select among menu items.
3. Press ◄ / ► button to change the values of selected option .
4. Press ▲ / ▼ button to select the option you wish to change.
5. Press **ENTER** to confirm your selection.
6. Press ◄ to return the previous grade menu**.**
7. Press **SETUP** to exit the setup menu.

Menu	Description
GENERAL SETUP PAGE	**ANGLE MARK:** Selects a different angle if the back of the DVD jacket contains a multiple angles icon. • ON • OFF
	OSD LANG: Selects a language for DVD play menu. • ENGLISH • FRENCH • SPANISH • ITALIAN
	CAPTIONS: Selects the caption for DVD play. • ON • OFF
	SCREEN SAVER: Protects the screen if it paused about 5 minutes. • ON • OFF
SPEAKER SETUP PAGE	**DOWNMIX:** Applies to Dolby digital sound. • LT/RT • STEREO
PREFERENCE PAGE	**TV TYPE:** Selects the TV system . • PAL • NTSC
	AUDIO: Selects the audio track language. • ENGLISH • FRENCH • SPANISH • GERMAN • CHINESE • RUSSIAN • THAI
	SUBTITLE: Selects the language of the subtitles displayed on the screen. • ENGLISH • FRENCH • SPANISH • GERMAN • CHINESE • RUSSIAN • THAI • OFF
	DISC MENU: Selects the language of the current disc. • ENGLISH • FRENCH • SPANISH • GERMAN • CHINESE • RUSSIAN • THAI

	PARENTAL: Restricts the viewing of movies to children of appropriate age levels only. You can select 1 to 8. 1 KID SAF (safe for children) 2 G (general audience) 3 PG (parental guidance suggested) 4 PG 13 (some material unsuitable for children under 13) 5 PGR (some material unsuitable for children under 17) 6 R (some material unsuitable for under 17) 7 NC 17 (not recommended viewing for children under 17) 8 ADULT (Only for adults due to graphic content.This is the default setting .) After you select the parental setting, press ENTER, then enter the 4-digit password (default is 3308). Press ENTER again to confirm.
	PASSWORD: Lets you change the 4-digit password using the number keys on the remote control . The default password is 3308, but no longer works after you change the password.
	DEFAULT: Resets all settings to the factory defaults.

Specifications

Specifications and design are subject to change with out notice.

Power Source	Vehicle battery (DC +10V ~ +18V)
Operating Voltage	DC +14V
Mechanism	Manual Open / Close
Display Angle	Vertical Adjustable: Up/Down < 120°
Pixel	800RGB(W)x480(H)
High Brightness	350 cd/m^2
Viewing angle(up/down/left/right)	45/65/65/65
Operating current	<2000mA(Typical V_{DD}=14V)
Dome Light	<2W
Operation Temperature	-10℃ to +50℃
Storage Temperature	-20°C to +70°C

Troubleshooting

If operation freezes, the screen goes black or the unit should otherwise not function properly, try turning the unit on and off. If the unit does not respond, press the reset switch on the Front Panel.

Problem	Cause	Solution
The player suddenly stopped working or the screen went black	Player error	Try turning the player off and on. If the player still doesn't respond, press the reset button.
Player doesn't turn on	The car ignition (or ACC/Accessory) is off	Insert the key into the ignition and turn it to ACC/Accessory.
	Condensation in the player	Wait for about one hour or until condensation evaporates.
Player operates erratically	Battery needs replacing	Replace the battery.
	Loose connections	Check and tighten all connections.
Blur picture on the screen.	Interfered by short-distanced strong interference. (E.g. high voltage wire, transformation station or aircraft etc…)	Move the vehicle away from the interference.
The picture on the screen is dark.	1. The equipment locates at a low temperature area. **2.** Brightness is set too low.	1. This is the characteristics of LCD display in low temperature, it will restore to normal brightness after starting the display for few minutes. 2.Adjust the brightness setting.